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FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
12/14/2001	George E. Berkey	SP00-386	7658
590 06/18/2003			
NCORPORATED		EXAMINER	
Y 14831	•	HOFFMANN, JOHN M	
		ART UNIT	PAPER NUMBER
		1731	Q'-
		DATE MAILED: 06/18/2003	0
	12/14/2001 590 06/18/2003 NCORPORATED	12/14/2001 George E. Berkey 590 06/18/2003 NCORPORATED	12/14/2001 George E. Berkey SP00-386 590 06/18/2003 NCORPORATED EXAMI (*) 14831 ART UNIT 1731

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	
Office Action Summary	10/023,291	BERKEY ET AL.		
	Examiner	Art Unit		
	John Hoffmann	1731		
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address	
I HE I - Exte after - If the - If NO - Failu - Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period we re to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication.	
1)□	Responsive to communication(s) filed on		•	
2a)		— is action is non-final.	•	
3)□	Since this application is in condition for allowa closed in accordance with the practice under	ince except for formal matters, pr	osecution as to the ments is 53 O.G. 213.	
· —	on of Claims			
•	Claim(s) 1-38 is/are pending in the application			
_	4a) Of the above claim(s) <u>17-38</u> is/are withdraw	n from consideration.		
	Claim(s) is/are allowed.			
_	Claim(s) <u>1-6 and 9-16</u> is/are rejected.			
	Claim(s) 7 and 8 is/are objected to.			
	Claim(s) <u>1-38</u> are subject to restriction and/or e on Papers	election requirement.		
	The specification is objected to by the Examiner			
	The drawing(s) filed on is/are: a) accep	'	-i	
,	Applicant may not request that any objection to the			
11) 🔲 🛚	The proposed drawing correction filed on			
,—	If approved, corrected drawings are required in repl		ved by the Examiner.	
12) 🔲 🏾	The oath or declaration is objected to by the Exa			
	nder 35 U.S.C. §§ 119 and 120			
	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f)	
	☐ All b)☐ Some * c)☐ None of:	p aa ee e.e. g 110(a)	(0) 01 (1).	
	1.☐ Certified copies of the priority documents	have been received		
	2.☐ Certified copies of the priority documents		n No	
	3. Copies of the certified copies of the priori application from the International Bure ee the attached detailed Office action for a list of	ty documents have been received	d in this National Stage	
	cknowledgment is made of a claim for domestic			
15)□ A	☐ The translation of the foreign language prov cknowledgment is made of a claim for domestic	priority under 35 U.S.C. §§ 120 :	and/or 121.	
Attachment(,	
2) 🔲 Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>8</u> .	4) Interview Summary (5) Notice of Informal Pa 6) Other:	(PTO-413) Paper No(s) atent Application (PTO-152)	
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U.S. Patent and Trademark Off PTO-326 (Rev. 04-01)

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DETAILED ACTION

Information Disclosure Statement

The information disclosure statement filed 8-20-02 fails to comply with 37 CFR 1.98(a)(3) because it does not include a concise explanation of the relevance, as it is presently understood by the individual designated in 37 CFR 1.56(c) most knowledgeable about the content of the information, of each patent listed that is not in the English language. It has been placed in the application file, but the information referred to therein has not been considered.

The information disclosure statement filed 08-20-02 fails to comply with the provisions of 37 CFR 1.97, 1.98 and MPEP § 609 because it fails to list the dates fort references AR and AS. It has been placed in the application file, but the information referred to therein has not been considered as to the merits. Applicant is advised that the date of any re-submission of any item of information contained in this information disclosure statement or the submission of any missing element(s) will be the date of submission for purposes of determining compliance with the requirements based on the time of filing the statement, including all certification requirements for statements under 37 CFR 1.97(e). See MPEP § 609 ¶ C(1).

Specification

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed. The elected claims are directed to a method, not to the fiber.

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Claim Objections

Claims 7-8 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim.

Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form.

Claim 1 requires the glass body to be pre-deuterated at the time of consolidation. However claims 7-8 require that prior to the consolidated step the glass body be deuterated. Therefore, claims 7-8 would have the consolidation be done post-deuteration - this is impossible because claim 1 requires it be pre-deuterated. Thus claims 7-8 do not further limit claim 1. Claims 7-8 are not further examined on their merits.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-6, 9-12 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 refers to "pre-deuterated". There is no definition for the term. Examiner could not find the term in any prior art. Line 10 of claim 1 should begin with "one".

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Claims 7-8 refers to "glass bodies" there is no antecedent basis for "glass bodies". It is unclear if claims 7-8 requires there be bodies, or if there are a plurality of bodies, then one is deuterated.

Claim 10 refers to "the soot body using glass plugs". There is no antecedent basis for any body using glass plugs. One would be confused as to whether this was the body of claim 1, or the "further" created soot structure of claim 10.

Likewise for claim 11: there no antecedent basis for "the soot body using predeuterated glass plugs".

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3, 9, 12-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Berkey 5917109.

Berkey discloses the invention at col. 8, line 46 to col.9, line 5. It is noted that a tube can be a plug: see present specification, paragraph 134, line 3. Berkey does not disclose that the plug is ever deuterated. It would have been obvious to never deuterate the Berkey plug, because there is no disclosure to do so, and because it would take extra time and money to deuterate. Any glass that has never been deuterated is clearly a pre-deuterated glass because it is prior to any deuteration. Claim 2 is clearly met in as much as the present invention meets it.

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Claim 3 "further" comprises making another glass preform. It would have been obvious to perform the Berkey method multiple times and simultaneously so as to make as much fiber as quickly as possible. This would result in two preforms being formed with sealed centerline holes simultaneously with each other.

Likewise for claim 9- it would have been obvious to make additional preforms - this would require further depositing a further soot on a further handle. It would have been obvious to use glass - prior to any deuteration thereof - because there is no disclosure of deuteration, and to avoid the cost and time needed for deuteration.

Claims 12 and 15: see col. 9, lines 24-27.

Claims 13-14 are met by another but similar process disclosed at figures 1-3 and col. 4, line 46 to col. 5, line 32. 10 is the substrate, 13 shows the depositing of soot, 19 is the inserted glass body/plug in to the bore from which the substrate is removed.

Figure 3 shows the overcladding of claim 13. The consolidation of claim 14 is disclosed at col. 6, lines 46-56.

Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Berkey as applied to claim 1 above, and further in view of Freund 4685945.

Berkey does not teach Deuteration of the fiber. However, Berkey discusses reducing water/hydroxyl contamination: col. 2, lines 25-28 and col. 3, lines 19-24. Freud is directed to improving fibers of low-hydroxyl fibers- see for instance, col. 2, lines 57-63. It would have been obvious to perform the Freund method (see claim 1) on the Berkey fiber, for the advantages that Freund discloses.

Allowable Subj ct Matter

Claims 4-6, and 10-11 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

The prior art does not disclose a step of plugging one end with a glass body, along with a further step of plugging both ends -for a total of at least 3 plugs.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Burrus and the Japanese abstract are cited as being pertinent to the present disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Hoffmann whose telephone number is 703-308-0469. The examiner can normally be reached on Monday through Friday, 7:00-3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steve Griffin can be reached on 703-308-1164. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-7115 for regular communications and 703-305-3599 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0651.

JOHN HOFFMANN PRIMARY EXAMINER GROUP 1300